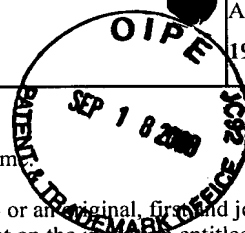


COMBINED DECLARATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY  
(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER  
19603/481 (CRF D-2472A)



As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**COUPLED POLYMERASE CHAIN REACTION-RESTRICTION ENDONUCLEASE  
DIGESTION-LIGASE DETECTION REACTION PROCESS**

the specification of which (check only one item below):

- ☐ is attached hereto.
- ☒ was filed as U.S. Patent Application Serial No. **09/528,014** on **March 17, 2000**, and was amended on \_\_\_\_\_ (if applicable).
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COUNTRY (IF PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
United States	60/125,251	19 March 1999	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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			<b>Direct Telephone Calls to: (name and telephone number) Michael L. Goldman (716) 263-1304</b>	
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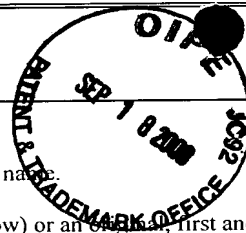
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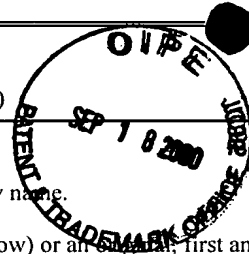
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SIGNATURE OF INVENTOR 201 <i>Dr. Francis Barany</i>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE <i>5/23/00</i>	DATE	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE

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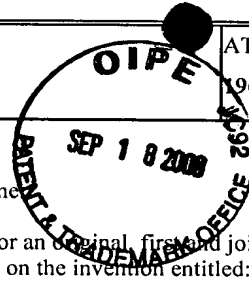
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**ATTORNEY'S DOCKET NUMBER**  
**19603/481 (CRF D-2472A)**

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. **Michael L. Goldman, Registration No. 30,727; Gunnar G. Leinberg, Registration No. 35,584; Dennis M. Connolly, Registration No. 40,964; Edwin V. Merkel, Registration No. 40,087; Georgia Caton, Registration No. 44,597; Grant E. Pollack, Registration No. 34,097**

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	POST OFFICE ADDRESS	P.O. ADDRESS <b>450 E. 63<sup>rd</sup> Street, Apt. #12C</b>	CITY <b>New York</b>	STATE & ZIP CODE/CTRY <b>New York 10021/USA</b>
202	FULL NAME OF INVENTOR	FAMILY NAME <b>Day</b>	FIRST GIVEN NAME <b>Joseph</b>	SECOND GIVEN NAME <b>P.</b>
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203	FULL NAME OF INVENTOR	FAMILY NAME <b>Hammer</b>	FIRST GIVEN NAME <b>Robert</b>	SECOND GIVEN NAME <b>P.</b>
	RESIDENCE & CITIZENSHIP	CITY <b>Baton Rouge</b>	STATE/FOREIGN COUNTRY <b>Louisiana</b>	COUNTRY OF CITIZENSHIP <b>United States</b>
	POST OFFICE ADDRESS	P.O. ADDRESS <b>4967 Tulane Drive</b>	CITY <b>Baton Rouge</b>	STATE & ZIP CODE/CTRY <b>Louisiana 70808/USA</b>
204	FULL NAME OF INVENTOR	FAMILY NAME <b>Bergstrom</b>	FIRST GIVEN NAME <b>Donald</b>	SECOND GIVEN NAME <b>E.</b>
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	POST OFFICE ADDRESS	P.O. ADDRESS <b>3416 Hamilton Street</b>	CITY <b>West Lafayette</b>	STATE & ZIP CODE/CTRY <b>Indiana 47906/USA</b>
205	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
206	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203 <i>Robert P. Hammer</i>
DATE	DATE	DATE <i>May 16, 2000</i>
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE

Page 3 of 3



NON-PROFIT  
Docket No.: 19603/481 (CRF D-2472A)

Applicant or Patentee : Francis Barany, Joseph P. Day, Robert P. Hammer, and Donald Bergstrom  
Serial or Patent No. : 09/528,014  
Filed or Issued : March 17, 2000  
For : **COUPLED POLYMERASE CHAIN REACTION -  
RESTRICTION ENDONUCLEASE DIGESTION - LIGASE  
DETECTION REACTION PROCESS**

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF CONCERN : **Purdue Research Foundation**  
ADDRESS OF CONCERN : **1063 Hovde Hall, Room 300  
West Lafayette, Indiana 47907-1063**

TYPE OF ORGANIZATION :

- ☒ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
- ☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE  
(26 USC 501(a) and 501(c)(3))
- ☐ NONPROFIT SCIENTIFIC OR EDUCATION UNDER STATUTE OF STATE OF  
THE UNITED STATES OF AMERICA (NAME OF STATE)  
(CITATION OF STATUTE)
- ☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE  
SERVICE CODE (26 USC 501(a) and 501(c)(3)) IF LOCATED IN THE UNITED  
STATES OF AMERICA
- ☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER  
STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED  
IN THE UNITED STATES OF AMERICA (NAME OF STATE)  
(CITATION OF STATUTE)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code with regard to the invention entitled **COUPLED POLYMERASE CHAIN REACTION - RESTRICTION  
ENDONUCLEASE DIGESTION - LIGASE DETECTION REACTION PROCESS** by inventors **Francis Barany, Joseph P. Day, Robert P. Hammer, and Donald Bergstrom** described in

☐ the specification filed herewith  
☒ U.S. Patent Application Serial No.: **09/528,014**  
Filed: **March 17, 2000**  
☐ U.S. Patent No.:  
Issued:

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). \*NOTE: Separate verified statements



NON-PROFIT  
Docket No.: 19603/481 (CRF D-2472A)

Applicant or Patentee : **Francis Barany, Joseph P. Day, Robert P. Hammer, and Donald Bergstrom**  
Serial or Patent No. : **09/528,014**  
Filed or Issued : **March 17, 2000**  
For : **COUPLED POLYMERASE CHAIN REACTION -  
RESTRICTION ENDONUCLEASE DIGESTION - LIGASE  
DETECTION REACTION PROCESS**

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS**

**(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF CONCERN : **Louisiana State University**  
ADDRESS OF CONCERN : **203 David Boyd Hall**  
**Baton Rouge, Louisiana 70803**  
TYPE OF ORGANIZATION :

- ☒ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION  
☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE  
(26 USC 501(a) and 501(c)(3))  
☐ NONPROFIT SCIENTIFIC OR EDUCATION UNDER STATUTE OF STATE OF  
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CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). \*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

NAME : **Cornell Research Foundation, Inc.**  
ADDRESS : **Cornell Business and Technology Park, 20 Thornwood Drive, Suite 105  
Ithaca, New York 14850**

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORGANIZATION

NAME : **Purdue Research Foundation**  
ADDRESS : **1063 Hovde Hall, Room 300, West Lafayette, Indiana 47907-1063**

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING : **Mani Iyer**  
TITLE OF PERSON OTHER THAN OWNER : **Director, Office of Intellectual Property**  
ADDRESS OF PERSON SIGNING : **203 David Boyd Hall  
Baton Rouge, Louisiana 70803**

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_

June 16, 2000

**Mani Iyer, Director**  
Office of Intellectual Property  
Louisiana State University

are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

NAME : **Cornell Research Foundation, Inc.**  
ADDRESS : **Cornell Business & Technology Park, 20 Thornwood Drive, Suite 105,  
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☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORGANIZATION

NAME : **Louisiana State University**  
ADDRESS : **203 David Boyd Hall, 146A, Baton Rouge, Louisiana 70803**

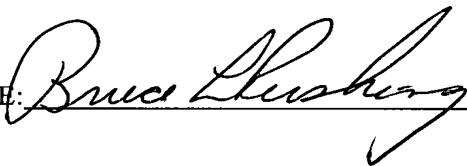
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NAME OF PERSON SIGNING : **Bruce L. Pershing**  
TITLE OF PERSON OTHER THAN OWNER : **Investment Officer and Corporate  
Secretary**  
ADDRESS OF PERSON SIGNING : **1063 Hovde Hall, Room 300  
West Lafayette, Indiana 47907-1063**

SIGNATURE: \_\_\_\_\_



DATE: 6/7/00





PATENT

Docket No.: 19603/481 (CRF D-2472A)

Applicant or Patentee : Francis Barany, Joseph P. Day, Robert P. Hammer, and Donald Bergstrom  
Serial or Patent No. : 09/528,014  
Filed or Issued : March 17, 2000  
For : **COUPLED POLYMERASE CHAIN REACTION -  
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ADDRESS OF ORGANIZATION : **Cornell Business & Technology Park  
20 Thornwood Drive, Suite 105  
Ithaca, New York 14850**

TYPE OF ORGANIZATION :

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- ☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c)(3)) IF LOCATED IN THE UNITED STATES OF AMERICA
- ☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA (NAME OF STATE:) (CITATION OF STATUTE:)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code with regard to the invention entitled **COUPLED POLYMERASE CHAIN REACTION - RESTRICTION ENDONUCLEASE DIGESTION - LIGASE DETECTION REACTION PROCESS** by inventors **Francis Barany, Joseph P. Day, Robert P. Hammer, and Donald Bergstrom.**

described in

- ☐ the specification filed herewith.

☒ U.S. Patent Application Serial No. **09/528,014**,  
filed **March 17, 2000**.

☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_.

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\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

NAME : **Louisiana State University**  
ADDRESS : **203 David Boyd Hall, 146A, Baton Rouge, Louisiana 70803**

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NAME OF PERSON SIGNING: **James A. Severson**  
TITLE IN ORGANIZATION: **President**  
ADDRESS OF PERSON SIGNING: **20 Thornwood Drive, Suite 105**  
**Ithaca, New York 14850**

SIGNATURE: \_\_\_\_\_

DATE: 9-May-00

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